

**AMENDMENTS TO THE CLAIMS**

**What is claimed is:**

- 5           1. (Currently Amended) A continuous manufacturing system for composite aluminum panels comprising;
- a continuous expanding device for expanding raw material of a core comprising:
- a first cramp for holding raw material before expansion for manufacturing a honeycomb type core, which is disposed at a right part of a raw material supplier;
- 10           the raw material supplier comprising:
- a pusher for pushing raw material having a number of U type grooves , wherein the pusher is fixed on an right upper end of  $\sqsubset$  type brackets;
- a plurality of sliding rods installed from the raw material supplier to a vicinity of a transferring roller for sliding raw material for the core;
- 15           a subsidiary cramp for holding fixedly a right side of the core, which is disposed at the right part of the first cramp, the subsidiary cramp reciprocating from side to side on racks, by means of a cylinder and simultaneously ascends and descends by means of perpendicular cylinders;
- a second cramp for expanding the raw material for the core to a right side of a
- 20           main body, which is disposed at the right part of the subsidiary cramp, the second cramp reciprocating from side to side by means of a cylinder and ascends and descends by means of perpendicular cylinders;
- the transferring roller running idle for transferring an expanded core by cooperating the second cramp, which is situated at the right side of the main body;
- 25           the main body comprising:
- a first supplying part for providing upper and lower sides of the expanded honeycomb type core with top and bottom aluminum plates by passing through rollers from upper and lower rollers;
- a second supplying part for providing adhering materials, which is disposed

between the upper and lower rollers,

a combination part for combining the aluminum plates, the adhering materials and the expanded honeycomb type core, which includes the upper and lower rollers;

a hot pressing part for pressing composite aluminum panels supplied from the  
5 combination part, the hot pressing part comprising:

upper and lower hot pressings;

supporting rollers; and

a finishing part comprising:

a quick cooling apparatus;

10 a slow cooling apparatus;

an adhering roller for protecting tape;

a side cutter for cutting sides of completed panel; and

a roller for pinching the completed panel established in sequence behind the  
hot pressing part.

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2. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which said first cramp comprises perpendicular cylinders for ascending and descending the first cramp, a cylinder for reciprocating from side to side on racks established on an upper part of the main body and  
20 an outer end mounted on a perpendicular plate of said main body.

3. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which said raw material supplier is mounted on a perpendicular plate fixed on an upper end of the main body and reciprocated  
25 from side to side by means of cylinders connected with lower ends of the brackets.

4. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which a front side of a most outer rod of said plurality of sliding rods for sliding raw material for the core is connected with a  
30 centering handle controlling a position in a front and in the rear, and their right and left

ends are mounted on the grooves of said pusher and on a length-wise supporter provided under the transferring roller which mounted on the right end of the expanding device, respectively.

5           5. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which said supplying part for providing adhering materials comprises any one device selected from a device for providing hot-melt films, rollers, providing film, an applicator spraying hot melting thermoplastic resin adhesive and a device for spraying liquid thermosetting resin adhesive.

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6. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 5 in which said hot melting thermoplastic resin adhesive is made from thermoplastic resins selected from polyethylene, polyisobutylene, polyamide, ethylene vinyl acetate copolymer and polyurethane.

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7. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 5 in which said liquid thermosetting resin adhesive made from thermosetting resins selected from epoxy or phenol resin.

20           8. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which between, before or behind the combination part and the hot pressing part, a thickness controlling part consisting of rollers for controlling thickness, and a side supporting part for supporting sides of a completed panel are provided.

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